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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,261	02/09/2004	Gyana Ranjan Parija	YOR920030256US1	8578
48150 75	590 07/28/2006		EXAMINER	
MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD			FREJD, RUSSELL WARREN	
SUITE 200	OKTHOUGE KOMB		ART UNIT	PAPER NUMBER
VIENNA, VA	22182-3817	-	2128	

DATE MAILED: 07/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/773,261	PARIJA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Russell Frejd	2128				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatir - If NO period for reply is specified above, the maximum statutory is - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNION IN THE STATE OF THIS COMMUNION. JOHN THE STATE OF THE ST	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on	26 April 2005					
	This action is non-final.					
3) Since this application is in condition for al		ers prosecution as to the merits is				
closed in accordance with the practice un	•	· ·				
Disposition of Claims	cor an parto quayto, 1000 c.a					
· <u> </u>	-Al					
	Claim(s) 1-20 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
7) Claim(s) is/are rejected.	Claim(s) 1-20 is/are rejected.					
8) Claim(s) is/are objected to.	and/or alastian requirement					
o) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to	o the drawing(s) be held in abeyar	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	orrection is required if the drawing	s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
* See the attached detailed Office action for a Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	4) ☐ Interview S B) Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152)				

In re Application of: Parija et al.

Examination of Application #10/773,261

1. Claims 1-20 of application 10/773,261, filed on 9-February-2004, are presented for examination.

Claim Rejections under 35 U.S.C. § 101

- 2. 35 U.S.C. 101 reads as follows:

 Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title.
- 2.1 Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The invention claims (claim 1 preamble), "A computerized method for providing an optimization solution".
- 2.2 MPEP Section 2106(IV)(B)(2)(b)(ii) provides that a statutory computer process is determined not by how the computer performs the process, but by what the computer does to achieve a practical application with a useful, concrete and tangible result. For example, a computer process that simply calculates a mathematical algorithm that models noise is nonstatutory, while a claimed process for digitally filtering noise employing the mathematical algorithm is statutory. The long line of cases in this area that are referred to in MPEP Section 2106(IV)(B)(2)(b)(ii) exemplify this requirement, by utilizing in the claim language, terms such as controlling, executing, changing and removing. In view of the aforementioned requirement and the interim guidelines for 101 eligibility, the Examiner respectfully contends that the claim language of independent claims 1, 5, 8, 9, 13 and 14 do not claim a practical application with a tangible result, that language claiming: in claim 1:

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receiving (emphasis added) data for a process which is defined by a linear functional form, including variables y, X_1 and X_2 ;

minimizing y with respect to X_{1} ; and;

maximizing y with respect to X_2 , wherein maximizing y comprises a global optimum for the process.

- 2.3 For at least these reasons, the Examiner respectfully posits that the claims of the present invention do not meet the criteria for a statutory process. Accordingly, the claims are determined to be a method for providing an optimization solution, consisting solely of mathematical operations, converting one set of numbers into another set of numbers, whereby the method does not manipulate appropriate subject matter, and thus cannot constitute a statutory process (MPEP Section 2106(IV)(B)(2)(c)).
- 2.4 The Examiner also posits that the method of the present invention is computer executable software code, or a program per se, consisting of software instructions that implement the method for providing an optimization solution. For at least this reason, the software instructions of the present invention do not manipulate appropriate subject matter, and thus cannot constitute a statutory process (MPEP Section 2106(IV)(B)(2)(c)).

Claim Rejections under 35 U.S.C. § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3.1 Claims 5, 8 and 14 are rejected under U.S.C. 102(b) as being anticipated by Whiffen, USP 6,496,741.

3.2 Whiffen discloses:

Claim 5: an apparatus for calculating a global optimization to a minimum-maximum problem, said apparatus comprising: a first calculator to provide a plurality of minimum values; and a second calculator to locate a global optimum value, given said plurality of minimum values [col. 6, lines 28-36].

Claim 8: a system comprising: a memory [Fig. 12] containing data appropriate to a minimum-maximum problem; and an apparatus comprising: a first calculator to provide a plurality of minimum values; and a second calculator to locate a global optimum value, given said plurality of minimum values [col. 6, lines 28-36].

Claim 14: a computerized tool [Fig. 12] for providing a global solution to a minimum-maximum problem, said tool comprising: a linear programming solver to calculate a periphery of a polyhedron representing a region of all points that satisfy a linear constraint in a minimum-maximum problem [col. 6, lines 28-36; and Fig. 3, with col. 12, lines 8-33].

Claim Objections

4. Claims 6, 7, and 15-20 are objected to as being dependent upon a rejected base claim,

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but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Allowed Claims

5. Claims 1-4 and 9-13 are deemed allowable over the prior art of record at this time, pending resolution of any rejections noted above.

Response Guidelines

- 6. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02, 710.02(b)).
- 6.1 Any response to the Examiner in regard to this non-final action should be

directed to: Russell Freid, telephone number (571) 272-3779, Monday-Friday

from 0530 to 1400 ET, **or** the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the TC2100

Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA, 22314.

Date: 24-July-2006

RUSSELL FREJD, PRIMARY EXAMINER